

509 8 ABSTRACT OF THE DISCLOSURE

510 The invention belongs to the technical domain of decoding, classification, alignment and  
511 matching of data.

512 The invention introduces a new method performing tasks in keyword spotting in utterances,  
513 detection of subsequences in chains of organic matter (DNA and proteins) and  
514 recognition of objects in images. The proposed method searches in an optimized way the  
515 matching that maximizes, over all the possible matchings, certain confidence measures based  
516 on normalized posteriors. Three such confidence measures are used, two existed in previous  
517 work in Speech Recognition, and the third one is a new one.

518 Application fields for this invention are: man-machine interfaces (using speech recognition;  
519 ex: control systems, banking, flight services, etc), coordination systems (for industrial  
520 robots and automata) and development systems for pharmaceutic products.

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